

WEST Search History

DATE: Monday, September 22, 2003

Set Name Query

side by side

Hit Count Set Name

result set

DB=USPT,PGPB,JPAB,EPAB,DWPI; PLUR=YES; OP=ADJ

L1	supercritical fluid	5304	L1
L2	silicate or clay or platelet or montmorillonite	351047	L2
L3	polymer or thermoplastic or polyolefin or polyolefine or olefin or olefine or polypropylene or propylene or polyethylene or ethylene	2321917	L3
L4	L1 same l2	53	L4
L5	l3 same L4	15	L5

END OF SEARCH HISTORY

WEST

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Search Results - Record(s) 1 through 15 of 15 returned.☐ 1. Document ID: US 20030154865 A1

L5: Entry 1 of 15

File: PGPB

Aug 21, 2003

PGPUB-DOCUMENT-NUMBER: 20030154865
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030154865 A1

TITLE: Nano coupling magnetoadsorbent

PUBLICATION-DATE: August 21, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Zornes, David A.	Sammamish	WA	US	

US-CL-CURRENT: 96/143; 252/62.51R, 252/62.53, 252/62.54

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Desc	Image
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☐ 2. Document ID: US 20030140845 A1

L5: Entry 2 of 15

File: PGPB

Jul 31, 2003

PGPUB-DOCUMENT-NUMBER: 20030140845
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030140845 A1

TITLE: Pressure vessel

PUBLICATION-DATE: July 31, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
D'Evelyn, Mark Philip	Niskayuna	NY	US	
Narang, Kristi Jean	Voorheesville	NY	US	
Giddings, Robert Arthur	Slingerlands	NY	US	
Leonelli, Robert Vincent JR.	Westerville	OH	US	
Dole, Stephen Lee	Columbus	OH	US	

US-CL-CURRENT: 117/8

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Desc	Image
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☐ 3. Document ID: US 20030134942 A1

L5: Entry 3 of 15

File: PGPB

Jul 17, 2003

PGPUB-DOCUMENT-NUMBER: 20030134942
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030134942 A1

TITLE: Method for producing a well-exfoliated and dispersed polymer silicate nanocomposite by ultrasonication

PUBLICATION-DATE: July 17, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Lee, Ellen Cheng-Chi	Ann Arbor	MI	US	
Mielewski, Deborah Frances	Ann Arbor	MI	US	

US-CL-CURRENT: 523/300; 524/425, 524/445, 524/447

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)

[KMC](#) [Draw Desc](#) [Image](#)

☐ 4. Document ID: US 20030021825 A1

L5: Entry 4 of 15

File: PGPB

Jan 30, 2003

PGPUB-DOCUMENT-NUMBER: 20030021825
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030021825 A1

TITLE: Cleaning of medical devices with supercritical fluids

PUBLICATION-DATE: January 30, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Pathak, Chandrashekhar P.	Austin	TX	US	
Chinn, Joseph A.	Austin	TX	US	
Thoma, Randall J.	Austin	TX	US	

US-CL-CURRENT: 424/423; 203/99

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#)

[KMC](#) [Draw Desc](#) [Image](#)

☐ 5. Document ID: US 20020082331 A1

L5: Entry 5 of 15

File: PGPB

Jun 27, 2002

PGPUB-DOCUMENT-NUMBER: 20020082331
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020082331 A1

TITLE: System and method of preparing a reinforced polymer by supercritical fluid treatment

PUBLICATION-DATE: June 27, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Mielewski, Deborah Frances	Ann Arbor	MI	US	
Lee, Ellen Cheng-chi	Ann Arbor	MI	US	
Manke, Charles W.	West Bloomfield	MI	US	
Gulari, Esin	Detroit	MI	US	

US-CL-CURRENT: 524/445; 523/347

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 6. Document ID: US 20010034307 A1

L5: Entry 6 of 15

File: PGPB

Oct 25, 2001

PGPUB-DOCUMENT-NUMBER: 20010034307
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20010034307 A1

TITLE: LOW OVERBASED ALKYLARYL SULFONATES

PUBLICATION-DATE: October 25, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
KING, WILLIAM FRANK	NOVATO	CA	US	
CAMPBELL, CURTIS BAY	HERCULES	CA	US	
CLEMENT, OLIVIER	LE HAVRE	CA	FR	
LECOENT, JEAN-LOUIS	LE HAVRE	CA	FR	
LOCKETT, STEVEN GALE	SAN RAFAEL		US	
NELSON, RICHARD JAMES	PINOLE		US	
TEQUI, PIERRE	ST. ROMAIN DE COLBOSC		FR	

US-CL-CURRENT: 508/391

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 7. Document ID: US 6551967 B2

L5: Entry 7 of 15

File: USPT

Apr 22, 2003

US-PAT-NO: 6551967
DOCUMENT-IDENTIFIER: US 6551967 B2

TITLE: Low overbased alkylaryl sulfonates

DATE-ISSUED: April 22, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
King; William Frank	Novato	CA		
Campbell; Curtis Bay	Hercules	CA		
Clement; Olivier	Le Havre			FR
Le Coent; Jean-Louis	Le Havre			FR
Lockett; Steven Gale	San Rafael	CA		
Nelson; Richard James	Pinole	CA		
Tequi; Pierre	St. Romain de Colbosc			FR

US-CL-CURRENT: 508/391; 562/115

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 8. Document ID: US 6469073 B1

L5: Entry 8 of 15

File: USPT

Oct 22, 2002

US-PAT-NO: 6469073

DOCUMENT-IDENTIFIER: US 6469073 B1

TITLE: System and method of delaminating a layered silicate material by supercritical fluid treatment

DATE-ISSUED: October 22, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Manke; Charles W.	West Bloomfield	MI		
Gulari; Esin	Detroit	MI		
Mielewski; Deborah Frances	Ann Arbor	MI		
Lee; Ellen Cheng-chi	Ann Arbor	MI		

US-CL-CURRENT: 523/216; 125/23.01, 252/378R, 524/445, 528/483

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 9. Document ID: US 6339121 B1

L5: Entry 9 of 15

File: USPT

Jan 15, 2002

US-PAT-NO: 6339121

DOCUMENT-IDENTIFIER: US 6339121 B1

**** See image for Certificate of Correction ****

TITLE: Compatibilizer for immiscible polymer blends

DATE-ISSUED: January 15, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Rafailovich; Miriam	Plainview	NY		
Sokolov; Jonathan	Plainview	NY		
Zhu; Shaoming	Stony Brook	NY		
Chu; Benjamin	Setauket	NY		

US-CL-CURRENT: 524/445

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 10. Document ID: US 6168773 B1

L5: Entry 10 of 15

File: USPT

Jan 2, 2001

US-PAT-NO: 6168773

DOCUMENT-IDENTIFIER: US 6168773 B1

TITLE: Rapid process for making silica gel and silicate polymer and low density gels made thereby

DATE-ISSUED: January 2, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sharp; Kenneth George	Landenberg	PA		

US-CL-CURRENT: 423/338; 423/326, 423/335

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 11. Document ID: JP 2000053871 A

L5: Entry 11 of 15

File: JPAB

Feb 22, 2000

PUB-NO: JP02000053871A

DOCUMENT-IDENTIFIER: JP 2000053871 A

TITLE: RESIN COMPOSITION AND ITS PREPARATION

PUBN-DATE: February 22, 2000

INVENTOR-INFORMATION:

NAME	COUNTRY
YAMANAKA, TORU	
NISHIMURA, TORU	

INT-CL (IPC): C08 L 101/00; C08 J 3/20; C08 K 3/00; C08 K 3/34; C08 L 55/02; C08 L 67/00; C08 L 77/00; C08 L 81/02

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC	Draw Desc	Image
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☐ 12. Document ID: JP 10017319 A

L5: Entry 12 of 15

File: JPAB

Jan 20, 1998

PUB-NO: JP410017319A

DOCUMENT-IDENTIFIER: JP 10017319 A

TITLE: PREPARATION OF MESOPOROUS SILICATE

PUBN-DATE: January 20, 1998

INVENTOR-INFORMATION:

NAME

COUNTRY

IZUMI, JUN

YASUTAKE, AKINORI

TOMONAGA, NARIYUKI

KAGAWA, SHIYUUCHI

TERAOKA, YASUTAKE

SETOGUCHI, YUKAKO

INT-CL (IPC): C01 B 39/00; C04 B 38/04; C04 B 38/06

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWC	Draw Desc	Image
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☐ 13. Document ID: US 6469073 B1

L5: Entry 13 of 15

File: DWPI

Oct 22, 2002

DERWENT-ACC-NO: 2003-327112

DERWENT-WEEK: 200331

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TITLE: Method for delaminating layered silicate for producing reinforced polymer, involves contacting layered silicate particles with supercritical fluid, followed by depressurizing to exfoliate layered silicate

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWC	Draw Desc	Clip Img	Image
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☐ 14. Document ID: JP 2002212305 A

L5: Entry 14 of 15

File: DWPI

Jul 31, 2002

DERWENT-ACC-NO: 2002-613064

DERWENT-WEEK: 200312

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TITLE: Preparation of olefinic resin composition, useful for industrial part materials, comprises melt-kneading mixture of specified polymers and clay mineral in presence of supercritical fluid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWC	Draw Desc	Image
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☐ 15. Document ID: US 20020082331 A1

L5: Entry 15 of 15

File: DWPI

Jun 27, 2002

DERWENT-ACC-NO: 2002-665314

DERWENT-WEEK: 200271

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TITLE: Preparation of reinforced polymer used in automotive components, uses supercritical fluid to pretreat/delaminate silicate layers and to reduce melt viscosity

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMHC	Draw Desc	Clip Img	Image
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Terms	Documents
13 same L4	15

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L5: Entry 12 of 15

File: JPAB

Jan 20, 1998

PUB-NO: JP410017319A
DOCUMENT-IDENTIFIER: JP 10017319 A
TITLE: PREPARATION OF MESOPOROUS SILICATE

PUBN-DATE: January 20, 1998

INVENTOR-INFORMATION:

NAME

COUNTRY

IZUMI, JUN

YASUTAKE, AKINORI

TOMONAGA, NARIYUKI

KAGAWA, SHIYUUCHI

TERAOKA, YASUTAKE

SETOGUCHI, YUKAKO

ASSIGNEE-INFORMATION:

NAME

COUNTRY

MITSUBISHI HEAVY IND LTD

APPL-NO: JP08167073

APPL-DATE: June 27, 1996

INT-CL (IPC): C01 B 39/00; C04 B 38/04; C04 B 38/06

ABSTRACT:

PROBLEM TO BE SOLVED: To reduce total cost by mixing a silica source and an organic material under an acidic condition to gelate, executing a crystallization reaction and removing the organic material from the resultant silicate high polymer containing the organic material.

SOLUTION: The silicate high polymer containing the organic material is obtained by adding the organic material kept pH below 1 into an aq. solution prepared by dissolving the silica source in water, mixing to gelate and executing the crystallization reaction. Next, the organic material is removed by packing the silicate high polymer in a high pressure column 1 and passing the supercritical fluid heated by a heater 2 into the column 1 from the upstream through a passage 3. And after being introduced into a flash drum 6 through a pressure reducing valve 5 from a passage 4 to recover the organic material, the supercritical fluid is passed through a passage 8, a mixing vessel 9 and compressor 10 and is circulated to the column 1. Beside, a mesoporous silicate is obtained by firing the silicate high polymer in the column 1.

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L5: Entry 13 of 15

File: DWPI

Oct 22, 2002

DERWENT-ACC-NO: 2003-327112

DERWENT-WEEK: 200331

COPYRIGHT 2003 DERWENT INFORMATION LTD

TITLE: Method for delaminating layered silicate for producing reinforced polymer, involves contacting layered silicate particles with supercritical fluid, followed by depressurizing to exfoliate layered silicate

INVENTOR: GULARI, E; LEE, E C ; MANKE, C W ; MIELEWSKI, D F

PATENT-ASSIGNEE:

ASSIGNEE

FORD GLOBAL TECHNOLOGIES INC

UNIV WAYNE STATE

CODE

FORD

UYWAN

PRIORITY-DATA: 2000US-0748670 (December 22, 2000)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 6469073 B1	October 22, 2002		008	C08J003/20

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
US 6469073B1	December 22, 2000	2000US-0748670	

INT-CL (IPC): B28 D 1/32; C04 B 14/04; C08 J 3/20; C08 K 9/00

ABSTRACTED-PUB-NO: US 6469073B

BASIC-ABSTRACT:

NOVELTY - Layered silicate particles are contacted with supercritical fluid. The contacted particles are catastrophically depressurized to exfoliate the layered silicate, to form treated delaminated silicate particles.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for the following:

- (1) Preparation of reinforced polymer comprising performing the inventive method and then incorporating the treated particles in a polymer; and
- (2) Delaminated layered silicate.

USE - For delaminating layered silicate used for producing reinforced polymer used as interior and exterior components of vehicle e.g. interior trim panels, and as barrier products e.g. fuel tanks.

ADVANTAGE - The method produces reinforced polymers having improved mechanical properties. The method is cost effective and time saving. The interior and exterior components formed using the reinforced polymer are relatively lighter in weight than conventional components. The components have improved dimensional stability, barrier properties, scratch resistance and increased resistance to permeation.

DESCRIPTION OF DRAWING(S) - The figure shows flowchart depicting delamination of layered silicate to produce reinforced polymer.

CHOSEN-DRAWING: Dwg.1/5

TITLE-TERMS: METHOD DELAMINATE LAYER SILICATE PRODUCE REINFORCED POLYMER CONTACT LAYER SILICATE PARTICLE SUPERCritical FLUID FOLLOW DEPRESSURISED EXFOLIATE LAYER SILICATE

DERWENT-CLASS: A60 L02 P64

CPI-CODES: A08-R06B; A11-B09A2; A12-S08D3; A12-T04; L02-G01; L02-J02B;

ENHANCED-POLYMER-INDEXING:

Poly mer Index [1.1] 018 ; P0000 Polymer Index [1.2] 018 ; ND00 ; ND07 ; N9999 N6042*R ; K9892 ; Q9999 Q9234 Q9212 ; Q9999 Q9289 Q9212 ; Q9999 Q8480 Q8399 Q8366 ; Q9999 Q7636 ; B9999 B3747*R ; B9999 B3758*R B3747 ; B9999 B4864 B4853 B4740 ; B9999 B3816 B3747 Polymer Index [1.3] 018 ; F80 ; A999 A419 ; S9999 S1456*R

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C2003-085036

Non-CPI Secondary Accession Numbers: N2003-261440